## Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: MCR, LLC
Well Name/Number: State #11-24
Location: NE SW Section 24 T22N R19E
County: Fergus , MT; Field (or Wildcat) Wildcat
Air Quality
(possible concerns)
Long drilling time: No short, 3 to 4 days drilling time.
Unusually deep drilling (high horsepower rig): No, small single drilling rig TD 1150'.
Possible H2S gas production: None anticipated.
In/near Class I air quality area: Not in a Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit
required under 75-2-211.
Mitigation:
X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: Small single derrick drilling rig to drill to 1,150' TD.
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Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater and freshwater mud system to be used.
High water table: No, high water table expected.
Surface drainage leads to live water: Closest drainage is an unnamed ephemeral tributary
drainage to North Fork Taffy Creek, about 1/8 of a mile to the west from this location.
Water well contamination: None, closest water wells are about 5/8 of a mile to the
southwest, about 5/8 of a mile to the northwest, about 3/4 of a mile to the southwest and
1/25 miles to the northeast from this location, depth of these water wells are from 18' and
105'. Surface hole will be drilled with freshwater to 300'. Steel surface casing will be
run and cemented to surface to protect ground waters
Porous/permeable soils: No, sandy bentonitic soils.
Class I stream drainage: No, Class I stream drainages nearby.
Mitigation:
Lined reserve pit
$\underline{X}$ Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:

Comments: Adequate surface casing to be set to 300' to protect surface water and water wells.
Soils/Vegetation/Land Use
(possible concerns)
Steam crossings: No, streams to be crossed, only crossing ephemeral drainages.
High erosion potential: No, moderate cut up to 13.5' and moderate fill up to 18.9',
required
Loss of soil productivity: No, location will be restored after drilling, if nonproductive.
If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, small drillsite, 225'X250'.
Damage to improvements: Slight, surface use is grazing land.
Conflict with existing land use/values: Slight
Mitigation ————
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Will utilize existing county, Kjorlien Road and two track ranch trail.
Short access off existing trail to be build into this location, about 5/8 of a mile. Unlined
earthen pits will be utilized for drilling. Drilling fluids, mud solids and cuttings will be
allowed to dry in the pits. When pits are dry they will be filled in with subsoil and topsoil
spread.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: <u>Closest residence is about ½ of a mile to the</u>
west southwest from this location.
Possibility of H2S: None anticipated.
Size of rig/length of drilling time: Small single derrick drilling rig/Short drilling time 3
to 4 days.
Mitigation:
<ul><li>X Proper BOP equipment</li><li>Topographic sound barriers</li></ul>
H2S contingency and/or evacuation plan
Special equipment/procedures requirements Other:
Comments: Adequate amount of surface casing and BOP equipment should
mitigate any problems.
mugae any problems.

## Wildlife/recreation

(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: None
Conflict with game range/refuge management: None
Threatened or endangered Species: Threatened or endangered species identified are the
Pallid Sturgeon and Black-Footed Ferret. Species of concern is the Greater Sage Grouse
and Sprague's Pipit. NH tracker website lists one(1) species of concern in T22N R19E,
Greater Sage Grouse.
Mitigation:
Avoidance (topographic tolerance/exception)
X Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: DNRC Trust Lands. Trust Lands will do surface EA.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)
X other agency review (SHPO, DSL, federal agencies)
Other:
Comments: DNRC Trust Lands. Trust Lands will do surface EA.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No, impact expected from the drilling of this well.
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Remarks or Special Concerns for this site
No special concerns about this wellsite. This is a Eagle Formation test to be drilled to
1150' TD.

**Summary: Evaluation of Impacts and Cumulative effects** 

No significant or long term impacts expected from the drilling of this well. Some short term impacts will occur.	
I conclude that the approval of the subject Notice of Intent to Drill (does/ <u>does not</u> ) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ <u>does not</u> ) require the preparation of an environmental impact statement.	
Prepared by (BOGC): /s/Steven Sasaki (title:) Chief Field Inspector  Date: September 15, 2011	
Other Persons Contacted:	
Montana Bureau of Mines and Geology, GWIC  website (Name and Agency)Fergus County water wells (subject discussed)September 15, 2011 (date)	
US Fish and Wildlife, Region 6 website (Name and Agency) ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Fergus County (subject discussed)	
<u>September 15, 2011</u> (date)	
Montana Natural Heritage Program Website (FWP) (Name and Agency) Heritage State Rank= S1, S2, S3, T22N R19E (subject discussed)	
<u>September 15, 2011</u> (date)	
If location was inspected before permit approval: Inspection date: Inspector: Others present during inspection:	